

(Two papers due to re-exam) 14/06/2012 original paper

(3 Hours)

GN-1018

[Total Marks 100]

N.B.: 1. Question No. 1 is compulsory.

2. Attempt any four questions from remaining six questions.

3. Draw sketches wherever necessary.

Q.1.a. Evaluate : $\int_0^1 (x \log x)^4 dx$ (5)

b. Solve : $\frac{dr}{d\theta} = r \tan \theta \rightarrow \frac{r^2}{r \cos \theta}$ (5)

c. Evaluate : $\int_0^{\pi/3} \int_0^{\sqrt{x^2+a^2}} \frac{x dy dx}{y^2 + x^2 + a^2}$ (5)

d. Find by double integration the area enclosed by $y^2 = x^3$ and $y = x$ (5)

Q.2.a. Solve $(4xy + 3y^2 - x) dx + x(x + 2y) dy = 0$ (6)

b. Change the order of integration $\int_0^a \int_{\sqrt{a^2-x^2}}^{2-x} f(x,y) dx dy$ (6)

c. Prove that $\int_0^\infty \frac{dx}{(e^x + e^{-x})^2} = \frac{1}{4} \beta\left(\frac{\pi}{2}, \frac{\pi}{2}\right)$ and hence evaluate $\int_0^\infty \operatorname{sech}^2 x dx$. (8)

Q.3.a. Using Euler's method find approximate value of y at $x=1$ in five steps (6)

taking $h=0.2$ given $\frac{dy}{dx} = x + y$ & $y(0) = 1$.

b. Evaluate $\int_0^1 \int_0^x \int_0^{2x-x^2} e^{x^2+y+z} dz dy dx$ (6)

c. Evaluate by changing to polar coordinates $\int_0^1 \int_x^{\sqrt{2x-x^2}} (x^2 + y^2) dy dx$ (8)

Q.4.a. Show that $\int_0^\infty \frac{\tan^{-1} x}{x(1+x^2)} dx = \frac{\pi}{2} \log(1+a)$ (6)

b. Evaluate $\int_R \int \frac{y dx dy}{(a-x)\sqrt{a^2-x^2}}$ where R is the region bounded by $y^2 = ax$ & $y = x$. (6)

c. Solve by the method of variation of parameters $(D^2 - 2D + 2)y' = e^x \tan x$ (8)

Q.5.a. Solve $(D^2 + 2)y = e^x \cos x + x^2 e^{2x}$ (6)

b. Using Taylor's Method Solve $\frac{dy}{dx} = x^2 - y$ with $y(0)=1$. Also find y at $x = 0.1$ (6)

c. Find the Volume of the Tetrahedron bounded by the planes $x = 0, y = 0, z = 0$ & $x+y+z = a$ (8)

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JA Banks



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Parallel Processing and Applied Mathematics Roman Wyrzykowski, Jack Dongarra, Marcin Paprzycki, Jerzy Wasniewski, 2003-08-01 This book constitutes the thoroughly refereed post proceedings of the 4th International Conference on Parallel Processing and Applied Mathematics PPAM 2002 held in Naleczow Poland in September 2001 The 101 papers presented were carefully reviewed and improved during two rounds of reviewing and revision The book offers topical sections on distributed and grid architectures scheduling and load balancing performance analysis and prediction parallel non numerical algorithms parallel programming tools and environments parallel numerical algorithms applications and evolutionary computing and neural networks

Queen's Papers in Pure and Applied Mathematics Robert G. Staudte, 1980 Queen's Papers in Pure and Applied Mathematics A. V. Geramita, Albert John Coleman, Paulo

Ribenboim, 1986 **Queen's Papers in Pure and Applied Mathematics** ,1980 Applied Mechanics Reviews ,1974

Journal of the Society for Industrial and Applied Mathematics. Series B: Numerical Analysis Society for Industrial and Applied Mathematics, 1999-07 Bulletin of the American Mathematical Society ,1905 **The Chemical**

News ,1871 **Minority Games** Damien Challet, Matteo Marsili, Yi-Cheng Zhang, 2004-11-04 The Minority Game is a physicist's attempt to explain market behaviour by the interaction between traders With a minimal set of ingredients and drastic assumptions this model reproduces market ecology among different types of traders Its emphasis is on speculative trading and information flow The book first describes the philosophy lying behind the conception of the Minority Game in 1997 and includes in particular a discussion about the El Farol bar problem It then reviews the main steps in later developments including both the theory and its applications to market phenomena Minority Games gives a colourful and stylized but also realistic picture of how financial markets operate

Publishers' Circular and Booksellers' Record of British and Foreign Literature ,1906 **The Public School Journal** ,1910 **Science & Engineering Indicators**

,2002 **Lectures on Visco-Plastic Fluid Mechanics** Guillaume Ovarlez, Sarah Hormozi, 2018-06-26 The book is designed for advanced graduate students as well as postdoctoral researchers across several disciplines e.g. mathematics physics and engineering as it provides them with tools and techniques that are essential in performing research on the flow problems of visco plastic fluids The following topics are treated analysis of classical visco plastic fluid models mathematical modeling of flows of visco plastic fluids computing flows of visco plastic fluids rheology of visco plastic fluids and visco plastic suspensions application of visco plastic fluids in engineering sciences complex flows of visco plastic fluids

Paper ,1988

The London Magazine Enlarged and Improved ,1784 **Proceedings of the Annual Session** Iowa State Education

Association, 1909 **Proceedings ...** Iowa State Teachers' Association, 1909 **The Athenaeum** ,1900 **Material**

Modeling and Structural Mechanics Holm Altenbach, Michael Beitel Schmidt, Markus Kästner, Konstantin

Naumenko, Thomas Wallmersperger, 2022-03-30 This book presents various questions of continuum mechanical modeling in

the context of experimental and numerical methods in particular multi field problems that go beyond the standard models of continuum mechanics In addition it discusses dynamic problems and practical solutions in the field of numerical methods It focuses on continuum mechanics which is often overlooked in the traditional division of mechanics into statics strength of materials and kinetics The book is dedicated to Prof Volker Ulbricht who passed away on April 9 2021 **Engineering News** ,1904

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